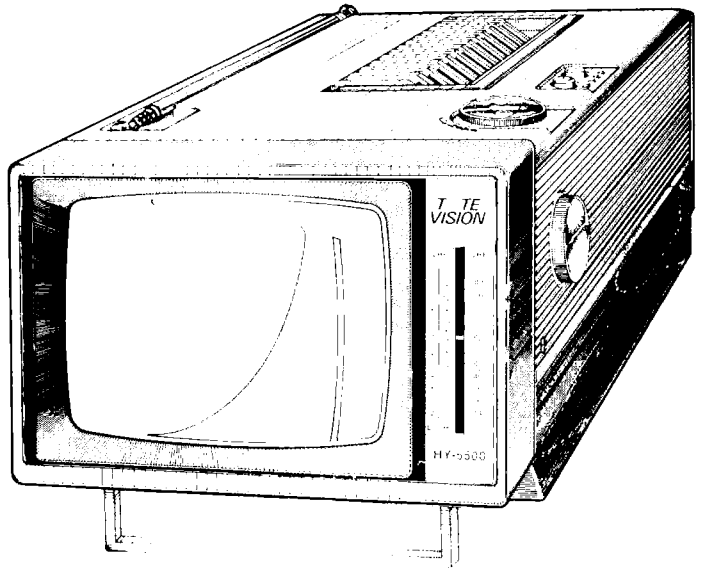
TOTE VISION®

Operating Instructions

Black and White Television

MODEL: HY-5500



Read these instructions completely, before operating this receiver

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Welcome to the TOTEVISION family of customers. It is our desire that you have many years of enjoyment from your new product. In keeping with the state of the art, we have built quality, reliability and performance into your unit. However, for best performance, a television receiver should be suitably situated in the home and properly adjusted. Proper installation practices and adjustments are easy to accomplish. As additional automatic circuits are designed into the product, it becomes beneficial for you to learn how to take advantage of these features.
This booklet will help you understand this unit.

Customers' Record
The serial number of this product may be found on its back cover.
You should note the model and serial number of this unit in the spaces provided and retain this sheet as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number HY-5500
Serial Number # _____

This receiver is designed in accordance with North American standards and therefore can not be used in countries that have a different broadcasting system.

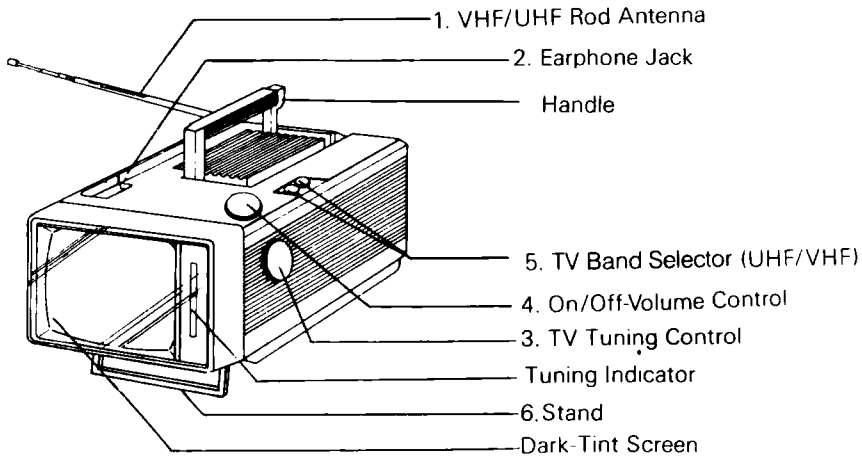
CAUTION: Remove AC adaptor from wall outlet and from receiver when receiver is not in use for a prolonged period.

WARNING **To prevent damage which may result in fire or shock hazard, do not expose this TV to rain or moisture.**

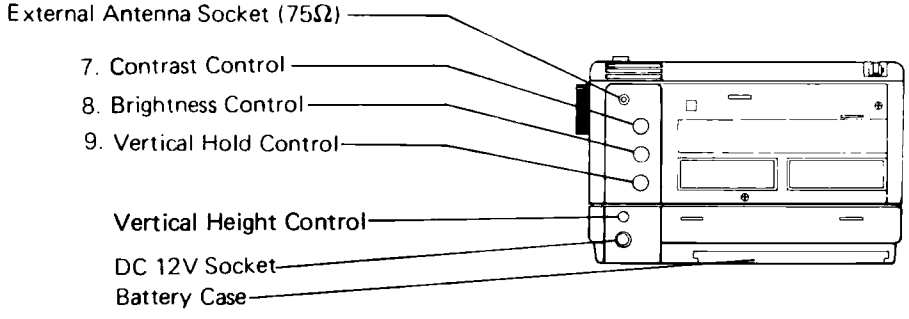
Warning High Voltage: Live parts are accessible when the upper cover is removed.

Controls and Functions

Front View



Rear View



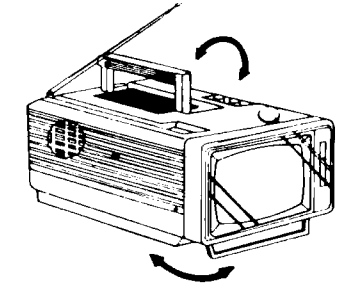
1. VHF/UHF Rod Antenna
This antenna is common to VHF and UHF channels. Refer to antenna section on page 5.

2. Earphone Jack
Inserting the earphone plug or head phone plug (optional accessories) into this jack will cut off the speaker and allow personal listening.

3. TV Tuning Control
Rotate this control to set the pointer to the desired channel on the tuning indicator.

4. On/Off-Volume Control
Turn the On/Off-Volume control clockwise to turn the receiver on and increase volume. To turn the receiver off turn the On/Off Volume control counterclockwise until it clicks off.

5. TV Band Selector
When you want UHF, be sure front selector button is released (not pushed in). For VHF, push front selector button down and push or release rear selector button according to VH or VL.



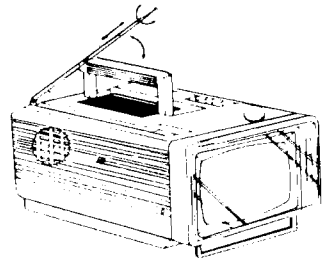
6. Stand
When you want to change the angle of the receiver, set the position as shown.

7. Contrast Control
Adjust this control to vary the contrast between dark and light scenes.

8. Brightness Control
Adjust this control to change the overall brightness of the picture.

9. Vertical Hold Control
Adjust this control to stop the picture from "rolling" either up or down as shown in the illustration.

VHF/UHF Rod Antenna



In a normal reception area, the VHF/UHF rod antenna will deliver a sharp picture and clear sound. Adjust the length, direction and angle as shown.

Note : Avoid pushing the top section of the antenna.

External Antenna

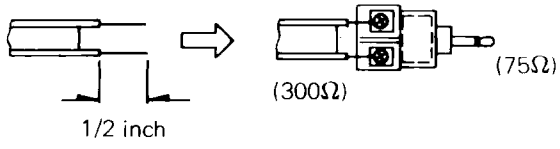
Where receiving conditions are unfavorable, an external antenna should be used.

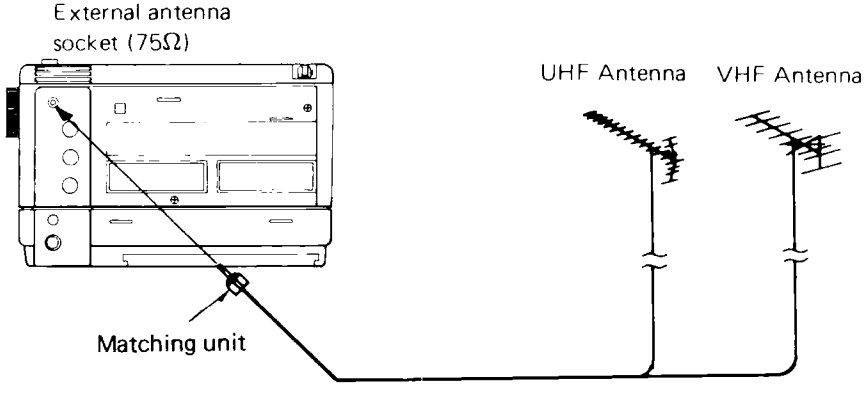
Steps (1) to (2)

(1) Connect the cable to the matching unit (OPTIONAL ACCESSORY) as shown.
(2) Insert the plug of the matching unit to the antenna socket of the receiver as shown.

How to use matching unit

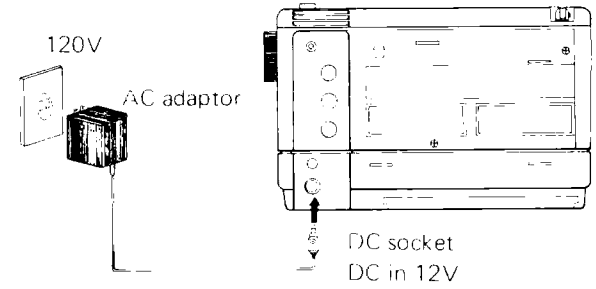
- 300Ω Twin-lead Connection





AC Power (House Current) Operation

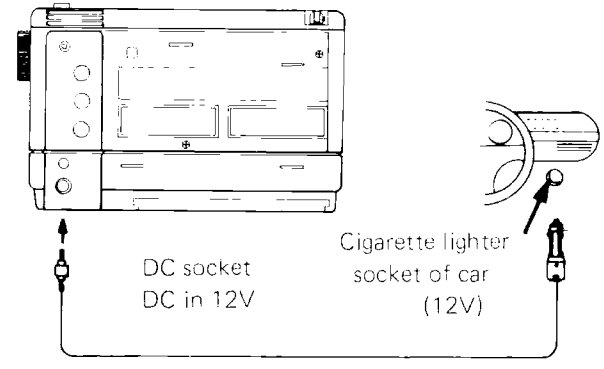
Connect the DC plug coming out of the AC adaptor (OPTIONAL ACCESSORY) into the DC socket in the receiver and then plug the AC adaptor into the wall outlet.

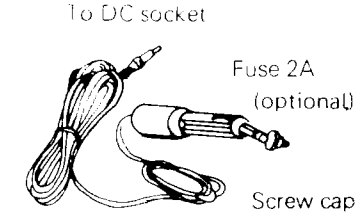


CAUTION: Remove the batteries when receiver is operating from AC power for a long time.

Car Battery Operation

Plug one end of car/boat cord (OPTIONAL ACCESSORY) into DC 12V socket of the receiver and the other end into cigarette lighter receptacle of car or boat.
This receiver is designed to operate on 12V DC.





Replacing Fuse

Unscrew the cap to replace the fuse. (Replace only with same type fuse 2A-125/250V)

CAUTION : Remove plug from cigarette lighter receptacle when receiver is not in use.

Dry Battery Operation

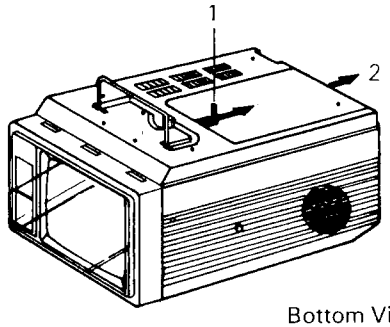
Dry Battery Installation:

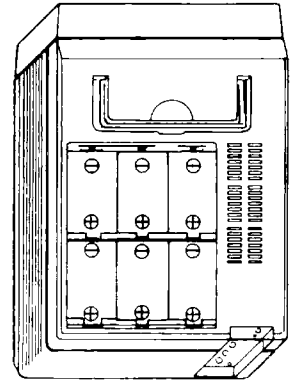
1. Be sure to observe polarity indicated in the battery compartment.
2. Do not mix different types of batteries or old and new batteries.
3. Replace all batteries at the same time.
4. To prevent damage, do not allow moisture to enter the battery compartment.
5. Average operating time for battery only operation will be six to twelve hours.

CAUTION: Improper placement of batteries may blow the fuse.

Steps (1) to (3)

(1) While pushing the battery cover, slide it off, as shown.
(2) Insert 8 "D" size dry batteries (optional) as shown.
(BE SURE TO OBSERVE POLARITY)
(3) Replace the cover.





Bottom View

Note:
1. When the battery power is low, the picture will shrink. Replace the batteries with fresh ones or remove them from the receiver.
2. The DC plug from the car cord, or the AC adaptor must be removed from the DC socket to operate on the batteries in the receiver.
3. Replace with equivalent type batteries or standard zinc carbon or alkaline types. Do not mix batteries of different composition.

Note : Dry battery operating time and efficiency decreases at low temperatures (usually below + 41°F/5°C)

Operating Procedure

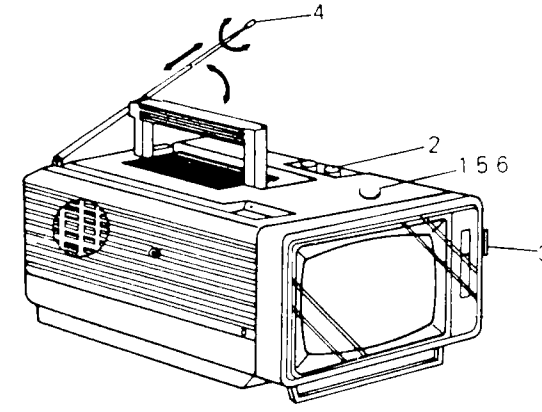
Steps (1) to (6)

(1) Turn on/off-volume control clockwise to turn on the receiver.

(2) When you want UHF, be sure front selector button is released (not pushed in). For VHF push front selector button down and push or release rear selector button according to VH or VL. (VH: Channel 6 to 13, VL: Channel 2 to 5)

(3) Adjust the tuning control to the desired station number on the tuning indicator
(4) Adjust the antenna. Refer to antenna section on page 5.
(5) Adjust on/off-volume control to your desired sound level.
(6) To turn the receiver off, turn the on/off-volume control counterclockwise until it clicks.

Other controls
Vertical-hold, Brightness and Contrast Refer to page 3 – 4.



In Case of Difficulty

If your set fails to operate properly, check the following points before seeking service.

Problems	Possible Causes	Refer to
No power	• AC adaptor cord not plugged in. • Car cord not properly connected. • Improper battery installation.	6 6 7
Will not operate on batteries	• AC adaptor or car cord plugged in. • Improper battery installation. • Batteries weak. (Even new batteries may be weak)	6 7 7
Normal sound, dim picture	• Brightness control setting.	4
Background noise, scrambled picture.	• TV tuning incorrect. • Vertical hold control setting.	4, 8 4
Normal sound, Multiple image (ghosting)	• Antenna direction.	5
Background noise, interference.	• Electrical appliances, auto ignition, etc.	–
No sound	• Earphone plugged in. • Volume turned down.	4 4
Background noise, "snowy" picture	• Antenna Connection. • Antenna Matching Unit plugged in.	5 5
Picture too bright, Picture too dark.	• Check brightness and contrast setting.	4

In the unlikely event service is required, the set must be sent to: 901 Thomas St. Seattle, WA 98109 Attention: Warranty Service. (See Certificate of Limited Warranty.)

Important Safety Instructions

1. Save these instructions for later use.

2. Unplug this television from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

3. Do not use attachments not recommended by the manufacturer as they may cause hazards.

4. Do not use this unit near water-for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

5. Do not place this television on an unstable cart, stand or table. The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance.

6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the television and to protect it from overheating, these openings must not be blocked or covered. The openings should,never be blocked by placing the television on a bed, sofa, rug, or other similar surface. This unit should never be placed near, or over a radiator or heat register. This television should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

7. This television should be operated only from the type of power source indicated on the making label. If you all not sure of the type of power supplied to your home, consult your television dealer or local power company. For units designed to operate from battery power, refer to the operating instructions.

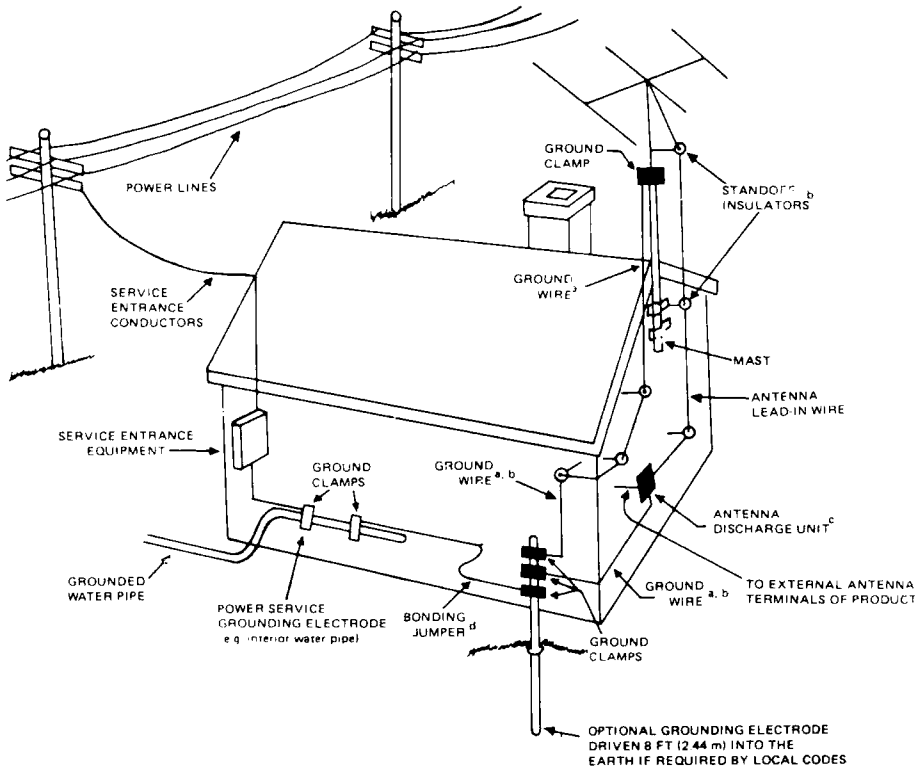
8. This television is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obselete outlet. Do not defeat the safety purpose of the pofarized plug.

9. Do not allow anything to rest on the power cord. Do not locate this television where the cord will be abused by people walking on it.

10. Follow all warnings and instructions marked on the television.

11. If an outside antenna is connected to the television, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section B10 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to and antenna discharge unit, size of grounding conductors, location of antenna and requirements for the grounding electrode. See Figure 82:1.

FIGURE 82 1
EXAMPLE OF ANTENNA GROUNDING ACCORDING TO
NATIONAL ELECTRICAL CODE INSTRUCTIONS


POWER LINES
GROUND CLAMP
STANDOFF INSULATORS [b]
SERVICE ENTRANCE CONDUCTORS
GROUND WIRE [a]
MAST
ANTENNA LEAD-IN WIRE
SERVICE ENTRANCE EQUIPMENT
GROUND CLAMPS
GROUND WIRE [a, b]
ANTENNA DISCHARGE UNIT [c]
GROUNDED WATER PIPE
POWER SERVICE GROUNDING ELECTRODE e.g. (interior water pipe)
BONDING JUMPER [d]
GROUND WIRE [a, b]
TO EXTERNAL ANTENNA TERMINALS OF PRODUCT
GROUND CLAMPS
OPTIONAL GROUNDING ELECTRODE DRIVEN 8 FT (2.44 m) INTO THE EARTH IF REQUIRED BY LOCAL CODES

[a] Use No. 10 AWC (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.

[b] Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4-6 feet (1.22-1.83 m) apart.

[c] Mount antenna discharge unit as close as possible to where lead-in enters house.

[d] Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used.

12. For added protection for this television during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the the unit due to lightning and powerlines surges.

13. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching power lines or circuits as contact with them might be fatal.

14. Do not overload wall outlets and extension cords as this can result in fire or electric shock.

15. Never push objects of any kind into this television through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television.

16. Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17. Unplug this television from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    a. When the power cord or plug is damaged or frayed.

    b. If liquid has been spilled into the television.

    c. If the television has been exposed to rain or water.

    d. If the television does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television to normal operation.

    e. If the television has been dropped or the cabinet has been damaged.

    f. When the television exhibits a distinct change in performance — this indicates a needfor service.

18. When replacement parts are required, be sure the service technican has used replacement parts specified by the manufacturer that have the same characteristics as the original part. UNAUTHORIZED substitutions may result in fire, electric shock, or other hazards.

19. Upon completion of any service or repairs to this television, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

Specifications

Power Source:	AC: 120V, 60Hz) Adaptor (DC12V: Car Battery, Dry or Rechargeable Battery) DC: 12V 600mA
Power Consumption:	AC: 10W DC: 7W
Antenna:	VHF/UHF Rod Antenna (75Ω) VHF/UHF External Antenna (75Ω – 300Ω)
Receiving Channel:	VHF: 2-13 UHF: 14-83
Intermediate Frequency:	Video: 45.75MHz Sound: 41.25MHz
Integrated Circuits:	4 IC's
Semiconductor:	13 Transistors 22 Diodes
Nominal Anode Voltage:	7kV (Zero Beam Current)
Picture Tube:	140AJB4 5"55° Deflection or 140ANB4 5"55° Deflection
Speaker:	2¾ inches 16Ω Round type.
Audio Output:	800mW Maximum
Automatic Circuit:	Key Automatic Gain Control Saw-Tooth Automatic Frequency Control Automatic Voltage Regulator
Dimensions:	Height: 5 1/5 inches (13.2 cm) Width: 6 9/10 inches (17.5 cm) Depth: 9 7/8 inches (25. 0 cm)
Weight:	3.75 lbs (1.7kg)

LIMITED 90 DAY WARRANTY

TOTEVISION warrants to the original purchaser that this product is free from defects in workmanship and material under normal use and conditions for a period of 90 days from the date of original purchase, subject to the limitations below. The picture tube (part only) is warranted for one year from purchase date. Should service be required by reason of any defect or malfunction during the warranty period, TOTEVISION will repair or at its discretion, replace this product, without charge (except for a $15.00 charge for handling, packing, return UPS/postage and insurance) subject to verification of the defect or malfunction, upon delivery of this product to the Factory Service Center listed below with proof of date of purchase.

During the warranty period TOTEVISION will repair or replace, free of charge, defective units WHICH ARE NOT DEFECTIVE DUE TO ORDINARY WEAR AND TEAR, USER ABUSE, OR OTHER CAUSES NOTARISING OUT OF MANUFACTURER'S DEFECTS IN MATERIALS OR WORKMANSHIP.

1. Before returning this product for service replace the batteries with fresh ones, because exhausted or defective betteries are the most common cause of problems encountered. If service is still required: Remove the batteries and pack the unit in its original carton with the styrofoam protectors to prevent damage to its appearance and cosmetics. (Be sure to retain the original carton and packing materials for the warranty period.) If it is necessary to pack the unit in other than its original carton and protectors, please insure proper packaging for good protection.

2. Enclose a photocopy of your dated sales receipt, credit card statement, or other proof of the date of purchase; a description of your complaint, your name and address. (Do not use P.O. Box numbers since UPS cannot deliver to P.O. Boxes.) Your registration card must be on file in our office as a method of identification. If proof of original ownership is not in our records the repairs will be treated as "out-of-warranty" and TV will be returned to you C.O.D. for repair and handling charges.

3. Enclose a check or money order payable to the order of TOTEVISION for the sum of $15.00 for return postage and handling.

4. Mail the unit prepaid to the Factory Service Center listed below.

5. If your TV needs service after the warranty period has expired, ship it prepaid and insured to the Factory Service Center below. Enclose a description of your complaint; your name and street address, together with **$42.00** (check, money order or credit card number) to cover repairs, shipping and handling. (Do not use P.O. Box numbers since UPS cannot deliver to P.O. Boxes).

If paying by credit card, list the following:

Type of Credit Card _____ Expiration Date _____

Credit Card Number: _____

Signature: _____

NOTE: This warranty is valid only if the product is used for the purpose for which it was designed. It does not cover:
(i) TOTEVISION products which have been damaged by negligence, misuse or accident or which have been modified or repaired by unauthorized persons. (ii) cracked or broken cabinets or units damaged by excessive heat, (iii) user adjustments and controls as indicated in the operator's manual, external antennas and their operation and problems with TV reception due to use in fringe or weak signal areas, (iv) the cost of shipping this product to the Factory Service Center and its return to you.

No warranty, express or implied, as to merchantability or fitness for a particular use is made beyond this Limited Warranty. TOTEVISION will note be liable for incidental or consequential damages or lost profits arising from product defects or malfunctions.

This warranty is valid only in the United States of America and does not extend to owners of the product subsequent to the original purchaser. Any applicable implied warranties are also limited to 90 days and TOTEVISION will not be liable for consequential damages. (Some states do not allow limitations on implied warranties or exclusions or consequential damages, so that these restrictions may not apply to you.) This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

As a precondition to receiving any of the benefits of this limited warranty, your completed warranty registration card must be on file in our office. IF YOUR CARD IS NOT ON FILE WITH US ALL WARRANTY CLAIMS WILL BE DENIED. TO PROTECT YOUR WARRANTY, MAIL YOUR REGISTRATION CARD TODAY! Submission of a set determined not defective will result in a charge to you for testing and handling the set. Thoroughly test your set and read your instruction manual before submitting it for warranty claim repair.

SEND UNIT TO:

TOTEVISION
FACTORY SERVICE CENTER
901 Thomas Street,
Seattle, WA. 98109